

Appln No. 09/643,921

Amdt date August 2, 2004

Reply to Office action of May 21, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of managing resources of a system, comprising:

processing ~~data~~ a signal;
estimating ~~data~~ signal processing complexity; and
~~reducing the data processing complexity adjusting~~
adaptation speed of an echo canceller for processing the signal,
when the estimated complexity exceeds a threshold.

2. (Currently Amended) The method of claim 1 wherein the ~~data processing comprises canceling echos from the data, and the data processing complexity reduction comprises further comprising bypassing the echo cancellation canceller and suppressing echo of the signal by an echo suppressor instead,~~
when the estimated complexity exceeds a threshold.

3. (Currently Amended) The method of claim 1 wherein the ~~data signal~~ processing comprises adaptively canceling the echos from the ~~data signal~~, and the ~~data processing complexity reduction further estimating signal processing complexity comprises reducing the complexity of the echo cancellation adaption estimating echo return loss enhancement (ERLE) of the echo canceller.~~

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4. (Currently Amended) The method of claim 3 wherein the estimating signal processing complexity reduction of the echo cancellation adaption complexity comprises disabling the echo cancellation adaption estimating maximum power level of a reference signal, long term average power of an error signal, and long term average power of a near end signal.

5. (Withdrawn) The method of claim 1 wherein the data processing comprises encoding the data, and the data processing complexity reduction comprises reducing the complexity of the data encoding.

6. (Withdrawn) The method of claim 5 wherein the data encoding comprises searching an adaptive codebook, and the data encoding complexity reduction comprises reducing complexity of the adaptive codebook search.

7. (Withdrawn) The method of claim 5 wherein the data encoding comprises searching an adaptive codebook, and the data encoding complexity reduction comprises bypassing the adaptive codebook search.

8. (withdrawn) The method of claim 5 wherein the data encoding comprises performing an excitation search, and the data encoding complexity reduction comprises reducing the complexity of the excitation search.

9.. (Withdrawn) The method of claim 8 wherein the excitation search comprises a fixed excitation search.

10. (Withdrawn) The method of claim 1 wherein the data processing comprises decoding the data, and the data processing complexity reduction comprises reducing the complexity of the data decoding.

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11. (Withdrawn) The method of claim 10 wherein the data processing further comprises filtering the decoded data, and the data decoding complexity reduction comprises disabling the data filtering.

12. (Withdrawn) The method of claim 1 wherein the data processing complexity reduction comprises reducing the data processing complexity to one of a plurality complexity reduction levels based on a magnitude in which the estimated data processing complexity exceeds the threshold.

13. (Withdrawn) The method of claim 1 wherein the data comprises a near and far end signal, and the data processing comprises canceling echos on a near end signal, the echos being introduced into the near end signal by a far end signal, and the data processing complexity estimation comprising estimating the data processing complexity based on power of the far end signal and power of the echo canceled near end signal.

14. (Withdrawn) The method of claim 1 wherein the data comprises voice including active voice and silent periods, and the data processing comprises encoding the data, the data encoding including detecting active voice, the data processing complexity estimation comprising estimating the data processing complexity based on the active voice detection,

15. (Withdrawn) The method of claim 14 wherein the data processing complexity reduction comprises reducing the complexity of the data encoding.

16. (Withdrawn) The method of claim 1 wherein the data comprises first and second frames, the first frame preceding the second frame in time, and wherein the data processing complexity

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estimation for the second frame is based on the data in the first frame.

17. (Currently Amended) A method of managing resources of a system, comprising:

performing a plurality of system signal processing functions on data a signal, including echo cancellation function;

estimating average complexity of each of the system signal processing functions;

summing the estimated average complexity of the each of the system signal processing functions; and

~~reducing complexity of at least one of the system functions~~ adjusting adaptation speed of the echo cancellation function, when the sum of the estimated average complexities exceeds a threshold.

18. (Currently Amended) The method of claim 17 wherein said at least one of the system functions comprises canceling echoes from the data, and the complexity reduction comprises further comprising bypassing the echo cancellation function and suppressing echo of the signal by an echo suppressor instead, when the sum of the estimated average complexities exceeds a threshold.

19. (Currently Amended) The method of claim 17 wherein said at least one of the system functions comprises adaptively canceling echoes from the data, and the complexity reduction adjusting adaptation speed of the echo cancellation function

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comprises reducing the complexity of the echo cancellation adaption.

20. (Currently Amended) The method of claim 19 wherein the estimating signal processing complexity reduction of the echo cancellation adaption complexity comprises disabling the echo cancellation adaption estimating maximum power level of a reference signal, long term average power of an error signal, and long term average power of a near end signal.

21. (Withdrawn) The method of claim 17 wherein said at least one of the system functions comprises encoding the data, and the complexity reduction comprises reducing the complexity of the data encoding.

22. (Withdrawn) The method of claim 21 wherein the data encoding comprises searching an adaptive codebook, and the data encoding complexity reduction comprises reducing complexity of the adaptive codebook search.

23. (Withdrawn) The method of claim 21 wherein the data encoding comprises searching an adaptive codebook, and the data encoding complexity reduction comprises bypassing the adaptive codebook search.

24. (Withdrawn) The method of claim 21 wherein the data encoding comprises performing an excitation search, and the data encoding complexity reduction comprises reducing the complexity of the excitation search.

25. (Withdrawn) The method of claim 24 wherein the excitation search comprises a fixed excitation search.

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26. (Withdrawn) The method of claim 17 wherein the complexity reduction comprises reducing the complexity of said at least one of the system functions such that system complexity is reduced to one of a plurality complexity reduction levels based on a magnitude in which the sum of the estimated average complexities exceeds the threshold.

27. (Withdrawn) The method of claim 17 further comprising detecting when system complexity exceeds the threshold after the complexity reduction of said at least one of the system functions, and further reducing the complexity of said at least one of the system functions or reducing the complexity of at least a second one of the system functions when the system complexity exceeds the threshold.

28. (Withdrawn) The method of claim 17 wherein the data comprises voice including active voice and silent periods, and said at least one of the system functions comprises encoding the data, the data encoding including detecting active voice, the average complexity estimation of the data encoding being based on the active voice detection.

29. (Withdrawn) The method of claim 28 wherein the data processing complexity reduction comprises reducing the complexity of the data encoding.

30. (Withdrawn) The method of claim 17 wherein said at least one of the system functions comprises decoding the data, and the complexity reduction comprises reducing the complexity of the data decoding.

31. (Withdrawn) The method of claim 30 wherein the data decoding comprises filtering the decoded data, and the data decoding complexity reduction comprises disabling data filtering.

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32. (Withdrawn) The method of claim 17 wherein the data comprises first and second frames, the first frame preceding the second frame in time, and wherein the data processing complexity estimation for each of the system functions for the second frame is based on the data in the first frame.

33. (Currently Amended) A data transmission system,
comprising:

a telephony device which outputs a signal; and
a signal processor coupled to the telephony device, the
signal processor comprising a resource manager that estimates
signal processor complexity and ~~reduces the signal processor~~
~~complexity adjusts adaptation speed of an echo canceller for~~
~~processing the signal~~ when the estimated complexity exceeds a
threshold.

34. (Withdrawn) The data transmission system of claim 33 wherein the resource manager reduces the signal processor complexity to one of a plurality of complexity reductions levels based on a magnitude in which the estimated signal processor complexity exceeds the threshold.

35. (Currently Amended) The data transmission system of
claim 33 wherein the signal processor comprises an echo
~~canceller~~ suppressor, and the resource manager reduces the
signal processor complexity by bypassing the echo canceller and
~~suppressing echo of the signal by the echo suppressor instead,~~
~~when the estimated complexity exceeds a threshold.~~

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36. (Currently Amended) The data transmission system of claim 33 wherein ~~the signal processor comprises an adaptive echo canceller, and the resource manager reduces the signal processor complexity by reducing the adaption complexity estimates signal processor complexity by estimating echo return loss enhancement (ERLE)~~ of the echo canceller.

37. (Currently Amended) The data transmission system of claim 36 wherein ~~the reduction of the echo canceller adaption complexity comprises disabling the adaption of the echo canceller~~ resource manager estimates maximum power level of a reference signal, long term average power of an error signal, and long term average power of a near end signal.

38. (Withdrawn) The data transmission system of claim 33 wherein the signal processor comprises an encoder, and the resource manager reduces the signal processor complexity with encoder complexity reductions.

39. (Withdrawn) The data transmission system of claim 38 wherein the encoder searches an adaptive codebook, and the resource manager reduces the encoder complexity by reducing search complexity of the adaptive codebook.

40. (Withdrawn) The data transmission system of claim 38 wherein the encoder includes an adaptive codebook, and the resource manager reduces the encoder complexity with an adaptive codebook bypass.

41. (Withdrawn) The data transmission system of claim 38 wherein the encoder performs an excitation search, and the

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resource manager reduces the encoder complexity by reducing complexity of the excitation search.

42. (Withdrawn) The method of claim 41 wherein the excitation search comprises a fixed excitation search.

43. (Withdrawn) The data transmission system of claim 33 wherein the signal processor comprises an echo canceller to cancel echos from a near end signal, the echos being introduced into the near end signal by a far end signal, and the resource manager estimates the signal processor complexity based on power of the far end signal and power of the echo canceled near end signal.

44. (Withdrawn) The data transmission system of claim 33 wherein the signal processor comprises a voice encoder to process voice including active voice and silent periods, and a voice activity detector, and wherein the resource manager estimates the signal processor complexity based on the active voice detection and reduces the signal processor complexity by reducing the complexity of the voice encoder.

45. (Withdrawn) The data transmission system of claim 33 wherein the signal processor comprises an decoder, and the resource manager reduces the signal processor complexity with decoder complexity reductions.

46. (Withdrawn) The data transmission system of claim 45 wherein the decoder includes a post filter, and the resource manager reduces the decoder complexity by disabling the post filter.

47. (Withdrawn) The data transmission system of claim 33 further comprising a public switched network coupled between the telephony device and the signal processor.

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48. (Withdrawn) The data transmission system of claim 33 wherein the telephony device comprises a telephone.

49. (Currently Amended) A resource manager for a signal processor, comprising:

estimation means for estimating signal processor complexity; and

~~reduction adjusting~~ means for ~~reducing the signal processor complexity~~ ~~adjusting adaptation speed of an echo canceller for processing the signal,~~ when the estimated complexity exceeds a threshold.

50. (Currently Amended) The resource manager of claim 49 wherein the signal processor includes an echo canceller further comprising echo suppressing means, and wherein the reduction adjusting means comprises means for bypassing the echo canceller and suppressing echo of the signal by the echo suppression means instead, when the estimated complexity exceeds a threshold.

51. (Currently Amended) The resource manager of claim 49 wherein the signal processor includes an adaptive echo canceller, and the reduction estimation means comprises means

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for reducing the adaption complexity estimating echo return loss enhancement (ERLE) of the echo canceller .

52. (Currently Amended) The resource manager of claim 49 wherein the ~~signal processor includes an adaptive echo canceller, and the reduction estimation means comprises means for disabling the adaption of the echo canceller estimating maximum power level of a reference signal, long term average power of an error signal, and long term average power of a near end signal.~~

53. (Withdrawn) The resource manager of claim 49 wherein the signal processor includes an encoder, and the reduction means comprises means for reducing the complexity of the encoder.

54. (Withdrawn) The resource manager of claim 53 wherein the encoder includes means for searching an adaptive codebook, and the encoder complexity reduction means comprises means for reducing complexity of the adaptive codebook search.

55. (Withdrawn) The resource manager of claim 53 wherein the encoder includes means for searching an adaptive codebook, and the encoder complexity reduction means comprises means for bypassing the adaptive codebook search.

56. (Withdrawn) The resource manager of claim 53 wherein the encoder includes means for performing an excitation search, and the encoder complexity reduction means comprises means for reducing the complexity of the excitation search.

57. (Withdrawn) The method of claim 56 wherein the excitation search comprises a fixed excitation search.

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58. (Withdrawn) The resource manager of claim 49 wherein the reduction means comprises means for reducing the signal processor complexity to one of a plurality complexity reduction levels based on a magnitude in which the estimated complexity exceeds the threshold.

59. (Withdrawn) The resource manager of claim 49 wherein the signal processor comprises an echo canceller to cancel echos from a near end signal, the echos being introduced into the near end signal by a far end signal, and the resource manager estimates the signal processor complexity based on power of the far end signal and power of the echo canceled near end signal.

60. (Withdrawn) The resource manager of claim 49 wherein the signal processor includes a voice encoder to process voice having active voice and silent periods and an active voice detector, and wherein the estimation means estimates the signal processor complexity based on the detection of active voice, and the reduction means further comprises means for reducing the complexity of the voice encoder.

61. (Withdrawn) The resource manager of claim 49 wherein the signal processor includes a decoder, and the reduction means comprises means for reducing the complexity of the decoder.

62. (Withdrawn) The resource manager of claim 60 wherein the decoder includes a post filter, and the decoder complexity reduction means comprises means for disabling the post filter.

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63. (Currently Amended) A resource manager for a signal processor performing a plurality of functions including echo cancellation function, comprising:

estimation means for estimating average complexity of each of the system functions;

summing means for summing the estimated average complexity of each of the system functions; and

~~reduction adjusting~~ means ~~for reducing complexity of at least one of the system functions~~ adjusting adaptation speed of the echo cancellation function, when the sum of the estimated average complexities exceeds a threshold.

64. (Currently Amended) The resource manager of claim 63 ~~wherein said at least one of the system functions comprises an echo canceller further comprising echo suppress means~~, and ~~wherein the reduction adjusting means comprises means for bypassing the echo canceller and suppressing echo of the signal by the echo suppressing means instead~~, when the estimated complexity exceeds a threshold.

65. (Currently Amended) The resource manager of claim 63 ~~wherein said at least one of the system functions comprises an adaptive echo canceller, and the reduction adjusting means comprises means for reducing the adaption complexity estimating echo return loss enhancement (ERLE) of the echo canceller.~~

66. (Currently Amended) The resource manager of claim 63 ~~wherein said at least one of the system functions comprises an~~

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~~adaptive echo canceller, and the reduction adjusting means comprises means for disabling adaption of the echo canceller estimating maximum power level of a reference signal, long term average power of an error signal, and long term average power of a near end signal.~~

67. (Withdrawn) The resource manager of claim 63 wherein said at least one of the system functions comprises an encoder, and the reduction means comprises means for reducing the complexity of the encoder.

68. (Withdrawn) The resource manager of claim 67 wherein the encoder searches an adaptive codebook, and the encoder complexity reduction means further comprises means for reducing complexity of the adaptive codebook search.

69. (Withdrawn) The resource manager of claim 67 wherein the encoder includes an adaptive codebook, and the encoder complexity reduction means further comprises means for bypassing the adaptive codebook search.

70. (Withdrawn) The resource manager of claim 67 wherein the encoder performs an excitation search, and the encoder complexty reduction means further comprises means for reducing the complexity of the excitation search.

71. (Withdrawn) The resource manager of claim 70 wherein the excitation search comprises a fixed excitation search.

72. (Withdrawn) The resource manager of claim 63 wherein the reduction means comprises means for reducing the complexity of said at least one of the system functions such that system complexity is reduced to one of a plurality

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complexity reduction levels based on a magnitude in which the sum of estimated average complexities exceeds the threshold.

73. (Withdrawn) The resource manager of claim 63 further comprising means for detecting when system complexity exceeds the threshold after the complexity reduction of said at least one of the system functions, and means for further reducing the complexity of said at least one of the system functions or reducing the complexity of at least a second one of the system functions when the system complexity exceeds the threshold.

74. (Withdrawn) The resource manager of claim 63 wherein the signal processor includes a voice encoder to encode voice including active voice and silent periods, and a voice activity detector, the estimation means comprising means for estimating the signal processing complexity based on the active voice detection, and the reduction means comprising means for reducing the complexity of the voice encoder.

75. (Withdrawn) The resource manager of claim 63 wherein said at least one of the system functions comprises a decoder, and the reduction means comprises means for reducing the complexity of the decoder.

76. (Withdrawn) The resource manager of claim 75 wherein the decoder comprises a post filter, and the decoder complexity reduction means further comprises means for disabling post filter.

77. (Currently Amended) Computer-readable media embodying a program of instructions executable by a computer to perform a method of managing resources of a signal processing system which processes data, the method comprising:

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estimating data signal processing complexity; and
~~reducing the data processing complexity adjusting~~
adaptation speed of an echo canceller for processing the signal,
when the estimated complexity exceeds a threshold.

78. (Currently Amended) The computer-readable media of
claim 77 wherein the ~~data processing comprises canceling echos~~
~~from the data, and the data processing complexity reduction~~
~~comprises further comprising instructions for bypassing the echo~~
~~cancellation canceller and suppressing echo of the signal by an~~
~~echo suppressor instead, when the estimated complexity exceeds a~~
threshold.

79. (Currently Amended) The computer-readable media of
claim 77 wherein the data signal processing comprises adaptively
canceling the echos from the ~~data signal~~, and the ~~data~~
~~processing complexity reduction further estimating signal~~
~~processing complexity~~ comprises ~~reducing the complexity of the~~
~~echo cancellation adaption estimating echo return loss~~
enhancement (ERLE) of the echo canceller.

80. (Currently Amended) The computer-readable media of
claim 77 wherein the estimating signal processing complexity
~~reduction of the echo cancellation adaption complexity~~ comprises
~~disabling the echo cancellation adaption estimating maximum~~
~~power level of a reference signal, long term average power of an~~
~~error signal, and long term average power of a near end signal.~~

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81. (Withdrawn) The method of claim 77 wherein the data processing comprises encoding the data, and the data processing complexity reduction comprises reducing the complexity of the data encoding.

82. (Withdrawn) The method of claim 81 wherein the data encoding comprises searching an adaptive codebook, and the data encoding complexity reduction comprises reducing complexity of the adaptive codebook search.

83. (Withdrawn) The computer-readable media of claim 81 wherein the data encoding comprises searching an adaptive codebook, and the data encoding complexity reduction comprises bypassing the adaptive codebook search.

84. (Withdrawn) The computer-readable media of claim 81 wherein the data encoding comprises performing an excitation search, and the data encoding complexity reduction comprises reducing the complexity of the excitation search.

85. (Withdrawn) The computer-readable media of claim 84 wherein the excitation search comprises a fixed excitation search.

86. (Withdrawn) The computer-readable media of claim 77 wherein the data processing complexity reduction comprises reducing the data processing complexity to one of a plurality complexity reduction levels based on a magnitude in which the estimated data processing complexity exceeds the threshold.

87. (Withdrawn) The computer-readable media of claim 77 wherein the data comprises a near and far end signal, and the data processing comprises canceling echos on a near end signal, the echos being introduced into the near end signal by a far end signal, the data processing complexity estimation comprising

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estimating the data processing complexity based on power of the far end signal and power of the echo canceled near end signal.

88. (Withdrawn) The computer-readable media of claim 77 wherein the data comprises voice including active voice and silent periods, and the data processing comprises encoding the data, the data encoding including detecting active voice, the data processing complexity estimation comprising estimating the data processing complexity based on the active voice detection.

89. (Withdrawn) The computer-readable media of claim 88 wherein the data processing complexity reduction comprises reducing the complexity of the data encoding.

90. (Withdrawn) The computer-readable media of claim 77 wherein the data processing comprises decoding the data, and the data processing complexity reduction comprises reducing the complexity of the data decoding.

91. (Withdrawn) The computer-readable media of claim 90 wherein the data decoding further comprises filtering the decoded data, and the data decoding complexity reduction comprises disabling the data filtering.

92. (Withdrawn) The computer-readable media of claim 77 wherein the data comprises first and second frames, the first frame preceding the second frame in time, and wherein the data processing complexity estimation for the second frame is based on the data in the first frame.

93. (Currently Amended) Computer-readable media embodying a program of instructions executable by a computer to perform a method of managing resources of a system which performs a

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plurality of system signal processing functions including echo cancellation function on data a signal, the method comprising:

estimating average complexity of each of the system signal processing functions;

summing the estimated average complexity of the each of the system signal processing functions; and

reducing complexity of at least one of the system functions adjusting adaptation speed of the echo cancellation function, when the sum of the estimated average complexities exceeds a threshold.

94. (Currently Amended) The computer-readable media of claim 93 ~~wherein said at least one of the system functions comprises canceling echoes from the data, and the complexity reduction comprises further comprising instructions for bypassing the echo cancellation function and suppressing echo of the signal by an echo suppressor instead, when the sum of the estimated average complexities exceeds a threshold.~~

95. (Currently Amended) The computer-readable media of claim 93 wherein ~~said at least one of the system functions comprises adaptively canceling echoes from the data, and the complexity reduction adjusting adaptation speed of the echo cancellation function comprises reducing the complexity of the echo cancellation adaption.~~

96. (Currently Amended) The computer-readable media of claim 93 wherein said estimating signal processing complexity at

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~~least one of the system functions comprises adaptively canceling echoes from the data, and the complexity reduction comprises disabling the echo cancellation adaption estimating maximum power level of a reference signal, long term average power of an error signal, and long term average power of a near end signal.~~

97. (Withdrawn) The computer-readable media of claim 93 wherein said at least one of the system functions comprises encoding the data, and the complexity reduction comprises reducing the complexity of the data encoding.

98. (Withdrawn) The computer-readable media of claim 97 wherein the data encoding comprises searching an adaptive codebook, and the data encoding complexity reduction comprises reducing complexity of the adaptive codebook search.

99. (Withdrawn) The computer-readable media of claim 97 wherein the data encoding comprises searching an adaptive codebook, and the data encoding complexity reduction comprises bypassing the adaptive codebook search.

100. (Withdrawn) The computer-readable media of claim 97 wherein the data encoding comprises performing an excitation search, and the data encoding complexity reduction comprises reducing the complexity of the excitation search.

101. (Withdrawn) The computer-readable media of claim 100 wherein the excitation search comprises a fixed excitation search.

102. (Withdrawn) The computer-readable media of claim 93 wherein the complexity reduction comprises reducing the complexity of said at least one of the system functions such that system complexity is reduced to one of a plurality

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complexity reduction levels based on a magnitude in which the estimated average complexities exceeds the threshold.

103. (Withdrawn) The computer-readable media of claim 93 further comprising detecting when system complexity exceeds the threshold after the complexity reduction of said at least one of the system functions, and further reducing the complexity of said at least one of the system functions or reducing the complexity of at least a second one of the system functions.

104. (Withdrawn) The computer-readable media of claim 93 wherein the data comprises voice including active voice and silent periods, and said at least one of the system functions comprises encoding the data, the data encoding including detecting active voice, the average complexity estimation of the data encoding being based on the active voice detection.

105. (Withdrawn) The computer-readable media of claim 104 wherein the complexity reduction comprises reducing the complexity of the data encoding.

106. (Withdrawn) The method of claim 93 wherein the data processing comprises decoding the data, and the data processing complexity reduction comprises reducing the complexity of the data decoding.

107. (Withdrawn) The computer-readable media of claim 105 wherein the data decoding comprises filtering the decoded data, and the data decoding complexity reduction comprises disabling data filtering.

108. (Withdrawn) The computer-readable media of claim 93 wherein the data comprises first and second frames, the first frame preceding the second frame in time, and wherein the data processing complexity estimation for the second frame is based on the data in the first frame.